## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/10886

IPC(7)	SSIFICATION OF SUBJECT MATTER : D01D 5/12			
US CL	: 246/441	electric and IDC		
	International Patent Classification (IPC) or to both nat	nonal classification and IPC		
B. FIEL	DS SEARCHED			
Minimum do U.S. : 24	ocumentation searched (classification system followed be 46/441,452,465; 425/174.8E,174.8R; 57/402	oy classification symbols)		
Documentati	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched	
Electronic da	ata base consulted during the international search (name	e of data base and, where practicable, searc	h terms used)	
	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a		Relevant to claim No.	
Х	US 6,110,590 A (ZARKOOB et al) 29 August 2000	(29.08.2000), Figure 1.	1-10, 12-17, 28-31	
— Ү			18-26	
x	US 2,338,570 A (CHILDS) 30 October 1941 (30.10.	1941), Figure 1.	1-17, 27-31	
Y	·		18-26	
x	US 6,616,435 B2 (LEE et al) 09 September 2003 (09	0.09.2003), Figure 1A.	1-17, 27-31	
Y			18-26	
X US 4,878,908 A (MARTIN et al) 07 November 1989 (07.11.1989), Figure 1.		(07.11.1989), Figure 1.	1, 4-10, 12-15, 17, 28- 31	
Y			18-26	
Y	US 6,267,987 B1 (PARK et al) 31 July 2001 (31.07.2	2001), col 6, lines 35-55.	18-23 and 25-26	
	documents are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of		"T" later document published after the inter date and not in conflict with the applica principle or theory underlying the inven	ation but cited to understand the	
particular relevance  "E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step		
"L" document	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	when the document is taken alone  "Y" document of particular relevance; the c		
specified)		considered to involve an inventive step when the document is combined with one or more other such documents, such combination being		
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"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report  0.5 DEC 2005		
	r 2005 (27.09.2005) uiling address of the ISA/US	Archorized officer)	ILU ZUUJ	
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ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 6,308,434 B1 (CHICKERING, III et al) 30 October 2001 (30.10.2001), col 8, line 40 - col 9, line 50.	18-23 and 25-26
Y	US 6,471,993 B1 (SHASTRI et al) 29 October 2002 (29.10.2002), col 3, lines 40-55.	18-26
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